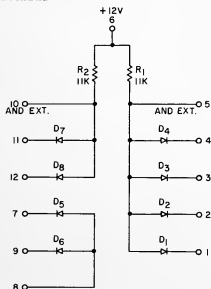


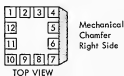
Functional Description

The AND OR Extender, AOX-2C, is used to extend the AND fan-in of either the AOI-1C, AOI-2C or DAOI-2C modules. The AOX-2C can also be used to extend the OR fan-in of the AOI-2C, or DAOI-2C modules.

Schematic



Terminal Configuration



Block Diagram



Maximum Ratings

Diode Breakdown Voltage = 13V

Maximum Diode Current = 5 Milliamps

AOX-2C Module Functional Tests

INDIVIDUAL DEVICE PARAMETER TESTS					
TESTS	COM-PONENTS	TEST CONDITIONS	T °C	LIMITS	
				MIN	MAX UNITS
V _F	D ₁ - D ₈	I _F = 0,10ma	25	0,51	V
V _F	D ₁ - D ₈	I _F = 1,0ma	25		0,80 V
V _F	D ₁ - D ₈	I _F = 5,0ma	25		1,0 V
8V _R	D ₁ - D ₈	I _R = 0,01ma	25	13,0	V
I _R	D ₁ - D ₈	V _R = 12,0V	75		1,0 μa
DIODE CAPACITANCE	D ₁ - D ₈	OV 8IAS, f = 1 ± 0,5 mhz AC SIGNAL ≤ 50mv P - P	25		3,5 pf
END OF LIFE RESISTOR TOLERANCE	R ₁ , R ₂		25 75	-8	+8 %

Circuit Characteristics

Input requirements are the same as the input requirements of the AOI-2C module

Maximum Power Supply Current Requirements

+12V	$\frac{\text{ON}}{2,2\text{ma}}$	$\frac{\text{OFF}}{2,4\text{ma}}$
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Maximum Power Dissipation

$\frac{\text{ON}}{28,0\text{mw}}$	$\frac{\text{OFF}}{31,0\text{mw}}$
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$$\text{Average Normal Power Dissipation} = \frac{\text{NOMINAL ON} + \text{NOMINAL OFF}}{2} = 22,0\text{mw}$$